FIG. 1

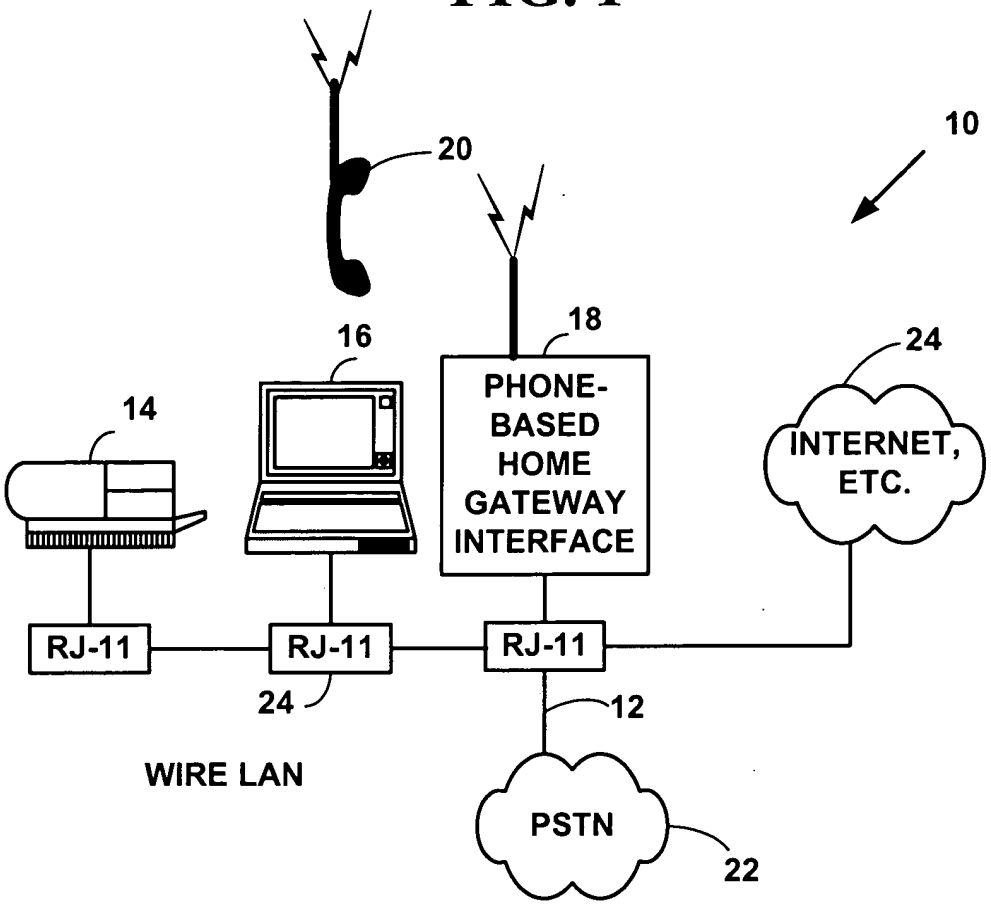

10
20
16
18
24
14
PHONE-
BASED
HOME
GATEWAY
INTERFACE
INTERNET,
ETC.
RJ-11
RJ-11
RJ-11
24
12
WIRE LAN
PSTN
22

FIG. 2

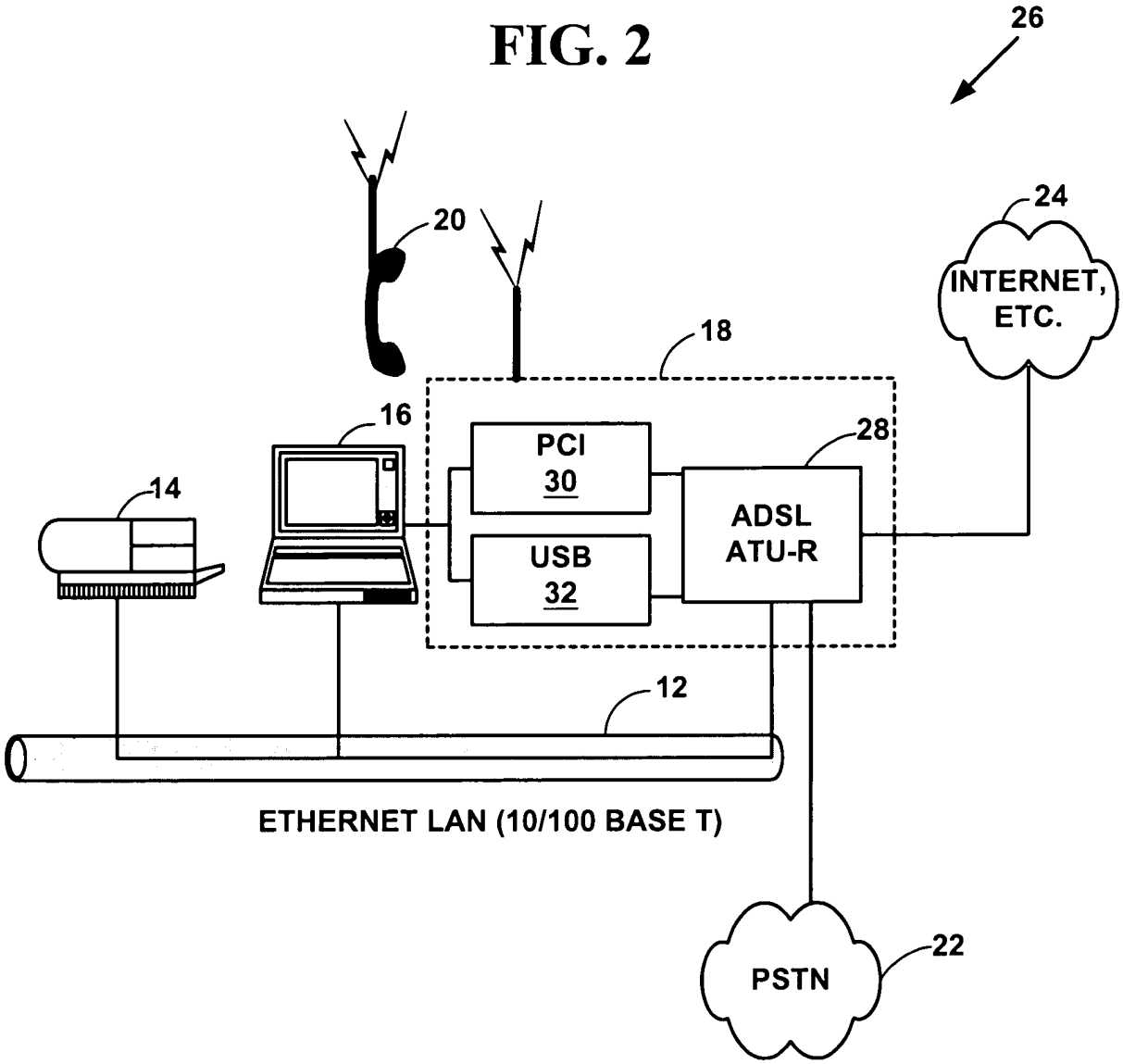

26
20
24
INTERNET, ETC.
18
16
28
PCI
30
14
ADSL
ATU-R
USB
32
12
ETHERNET LAN (10/100 BASE T)
PSTN
22

FIG. 3

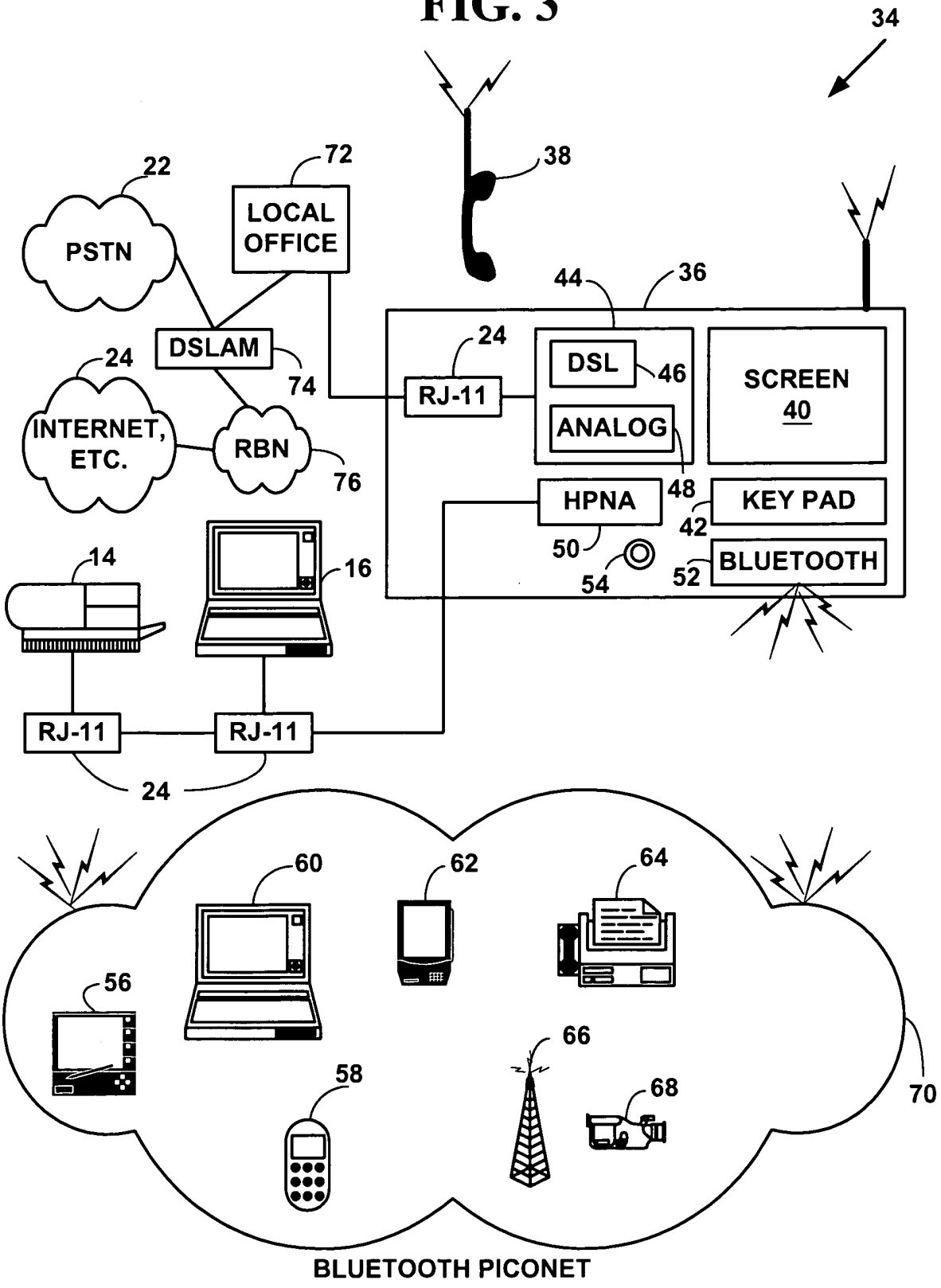

34
38
22
PSTN
72
LOCAL OFFICE
44
36
24
DSLAM
74
RJ-11
DSL
46
ANALOG
SCREEN
40
24
INTERNET, ETC.
RBN
76
HPNA
48
KEY PAD
42
50
54
52
BLUETOOTH
14
16
RJ-11
RJ-11
24
60
62
64
56
66
58
68
70
BLUETOOTH PICONET

FIG. 4

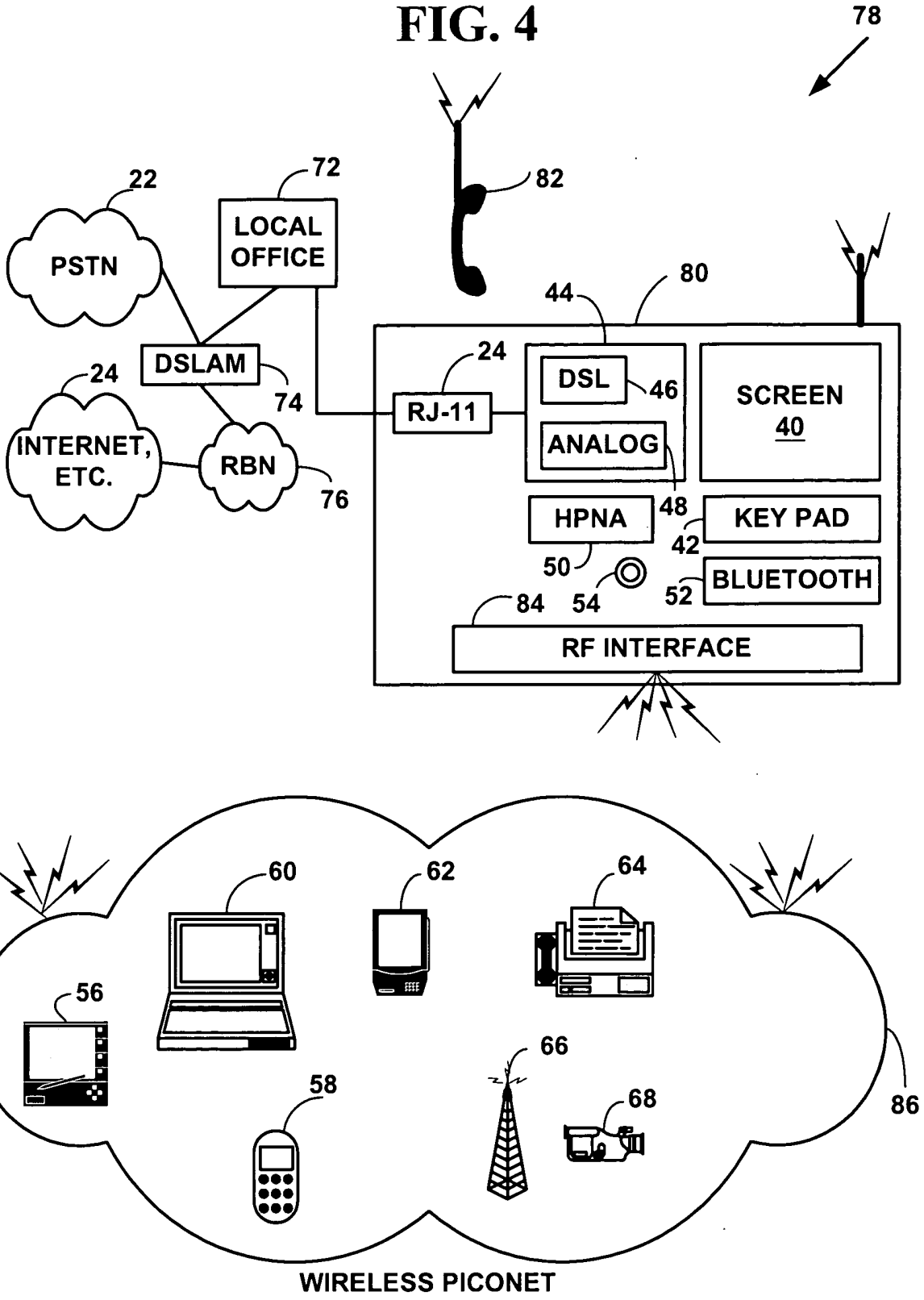

78
82
22
72
PSTN
LOCAL OFFICE
44
80
24
DSLAM
74
DSL
46
SCREEN 40
24
INTERNET, ETC.
RBN
76
RJ-11
ANALOG
48
HPNA
KEY PAD
42
50
54
52
BLUETOOTH
84
RF INTERFACE
60
62
64
56
66
58
68
86
WIRELESS PICONET

FIG. 5

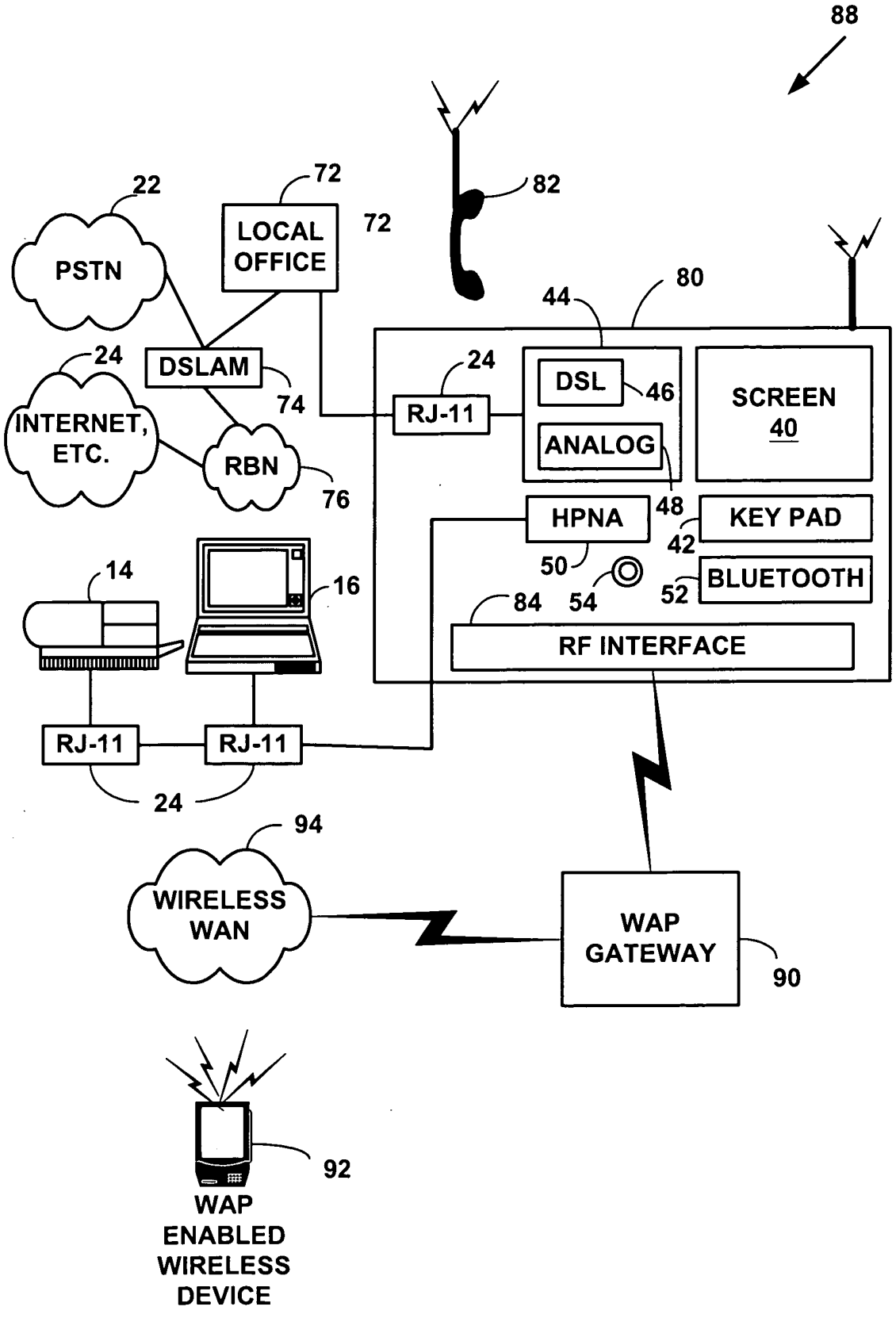
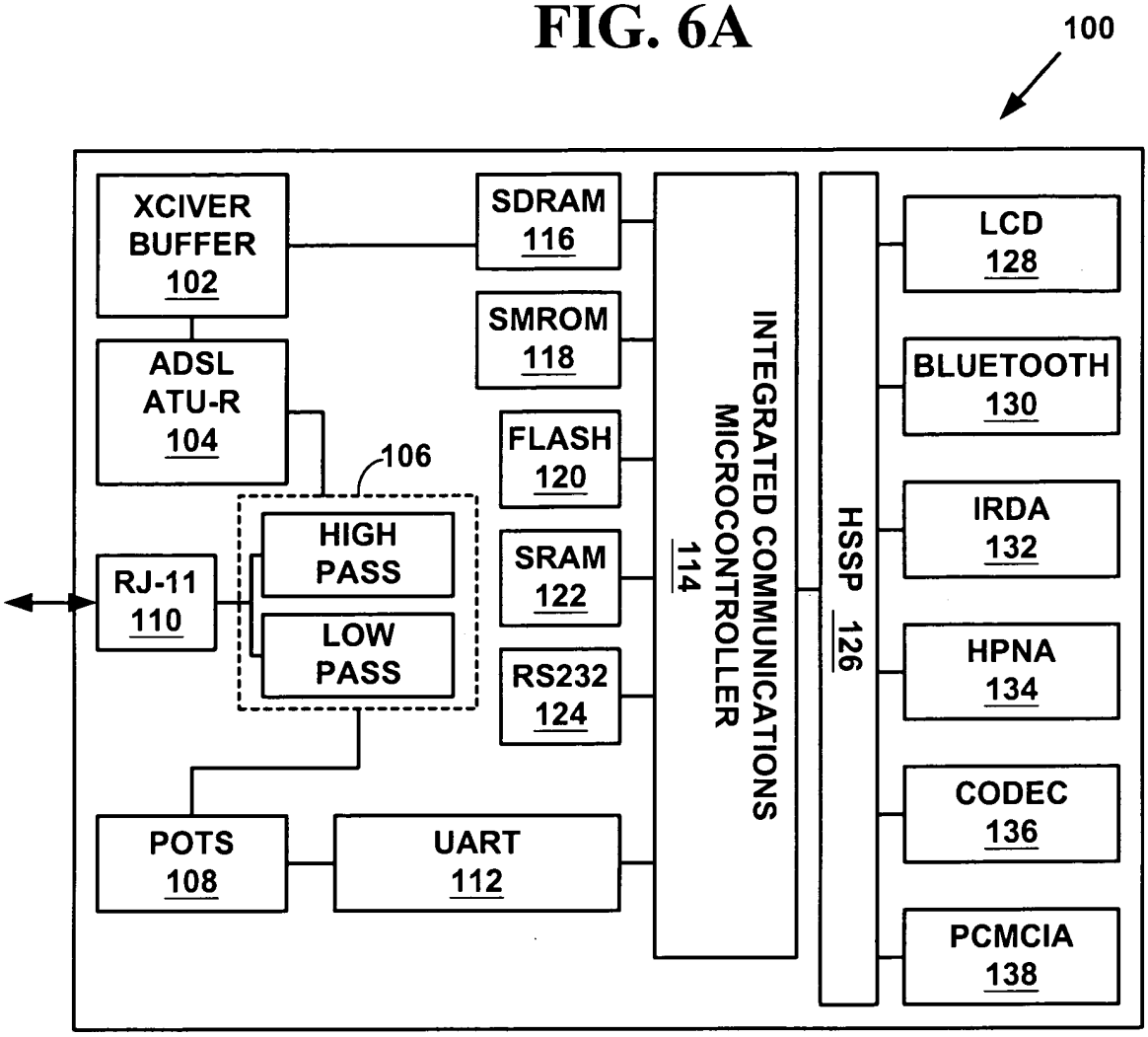
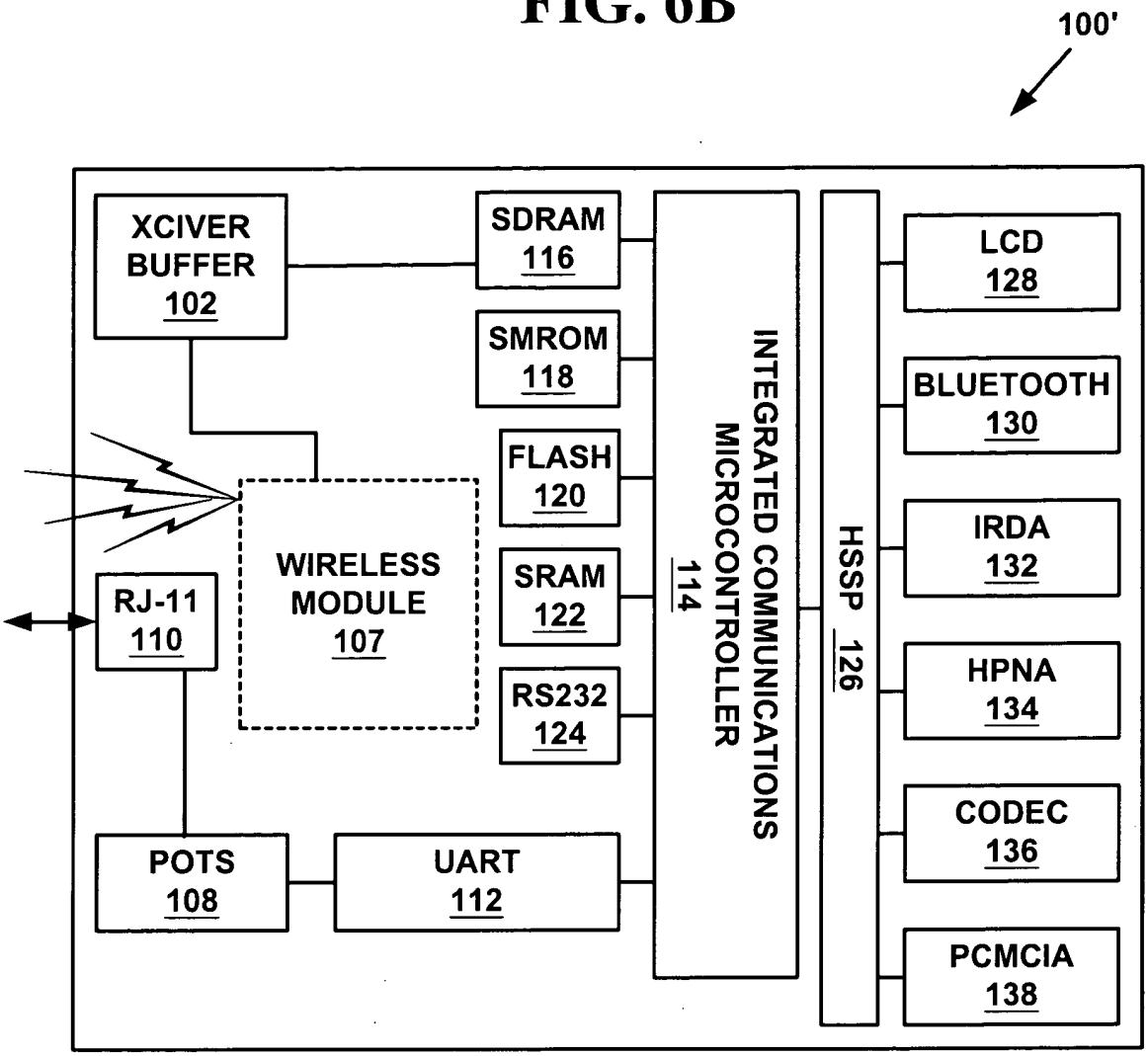

88
22
72
LOCAL OFFICE
72
PSTN
82
44
80
24
DSLAM
74
24
RJ-11
DSL
46
SCREEN
40
INTERNET, ETC.
RBN
76
ANALOG
48
HPNA
KEY PAD
42
50
54
52
BLUETOOTH
14
16
84
RF INTERFACE
RJ-11
RJ-11
24
94
WIRELESS WAN
WAP GATEWAY
90
92
WAP ENABLED WIRELESS DEVICE

FIG. 6A



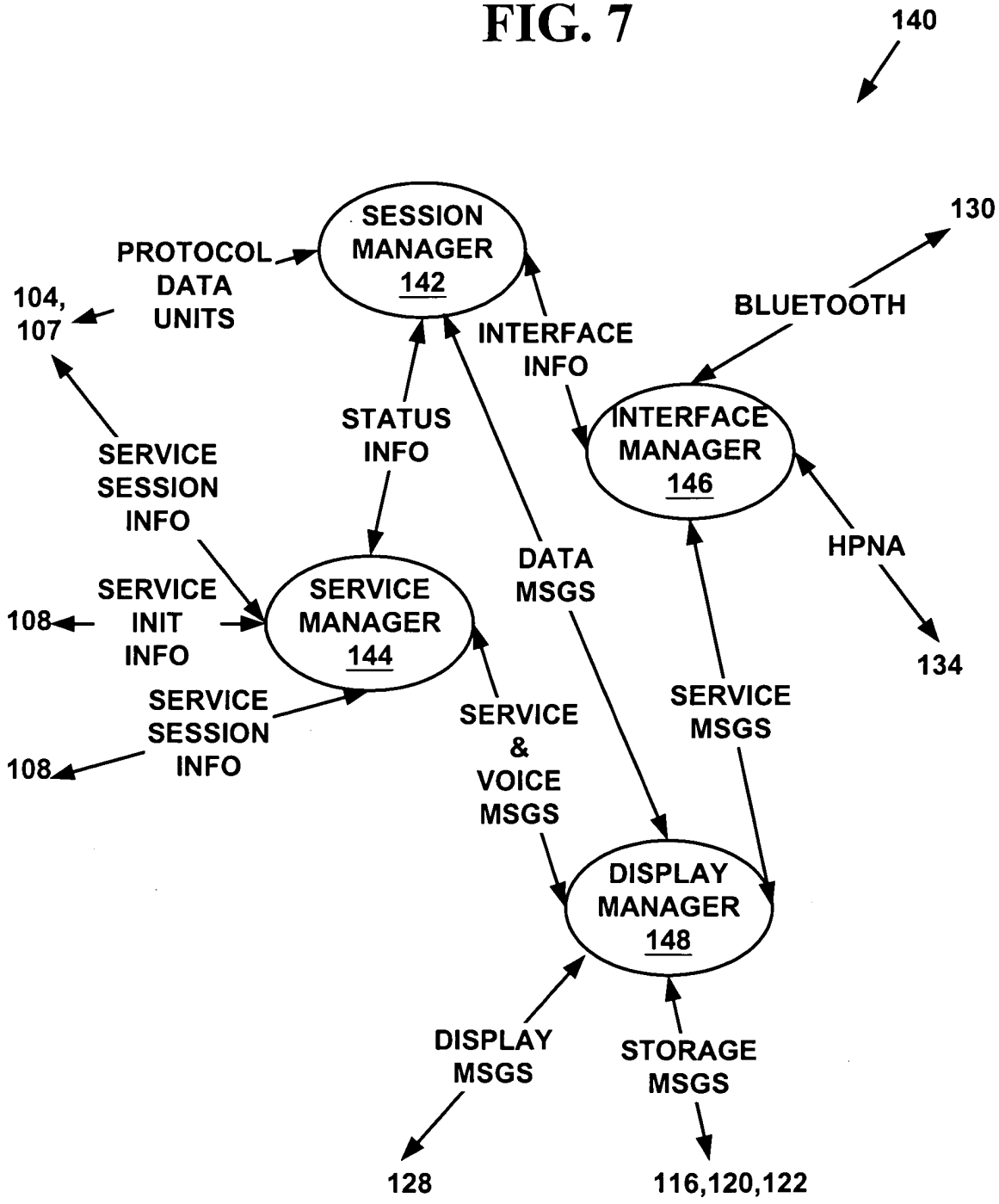
INTEGRATED PHONE-BASED HOME GATEWAY INTERFACE HARDWARE ARCHITECTURE

FIG. 6B



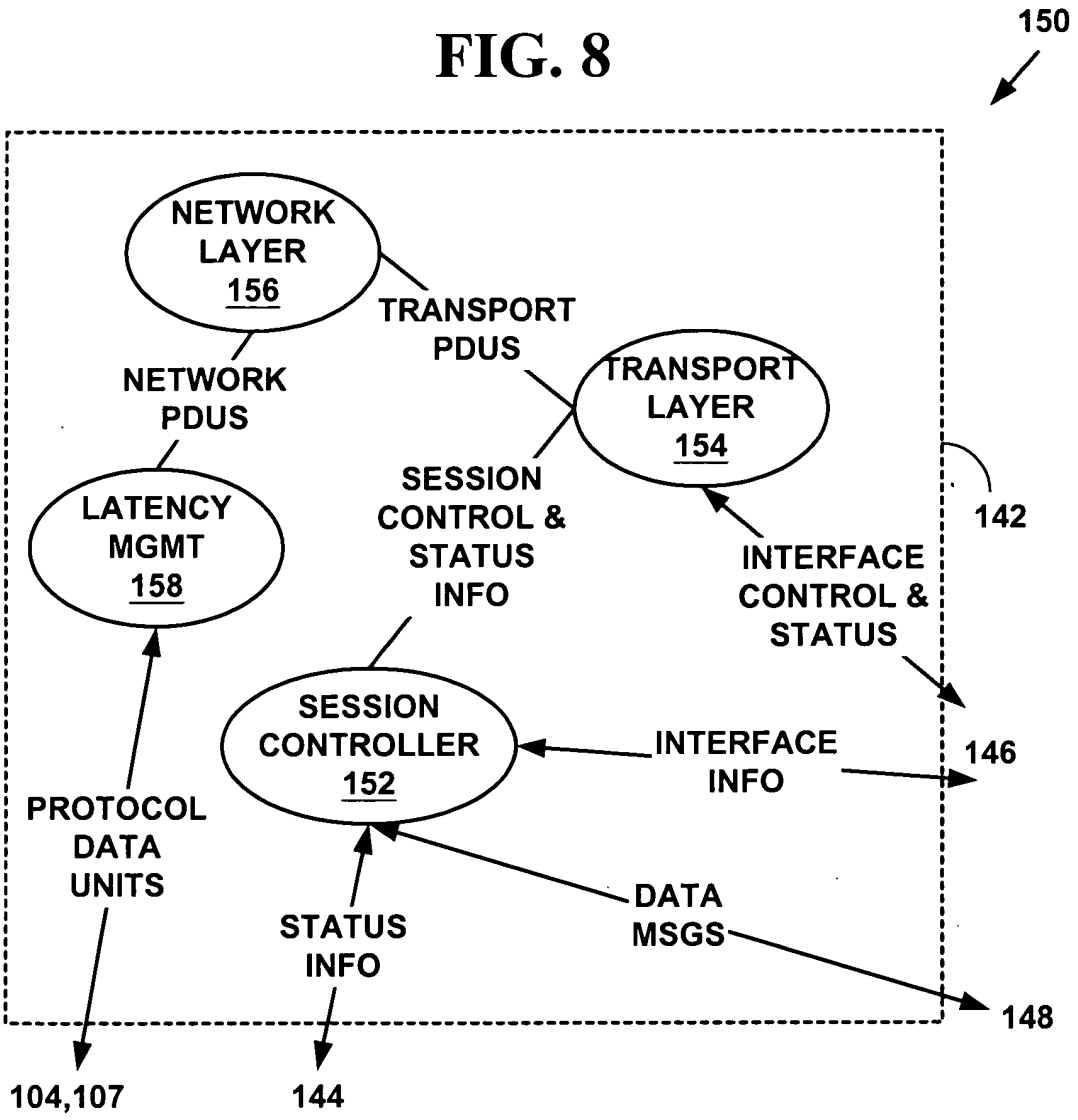
WIRELESS, INTEGRATED PHONE-BASED HOME GATEWAY INTERFACE HARDWARE ARCHITECTURE

FIG. 7



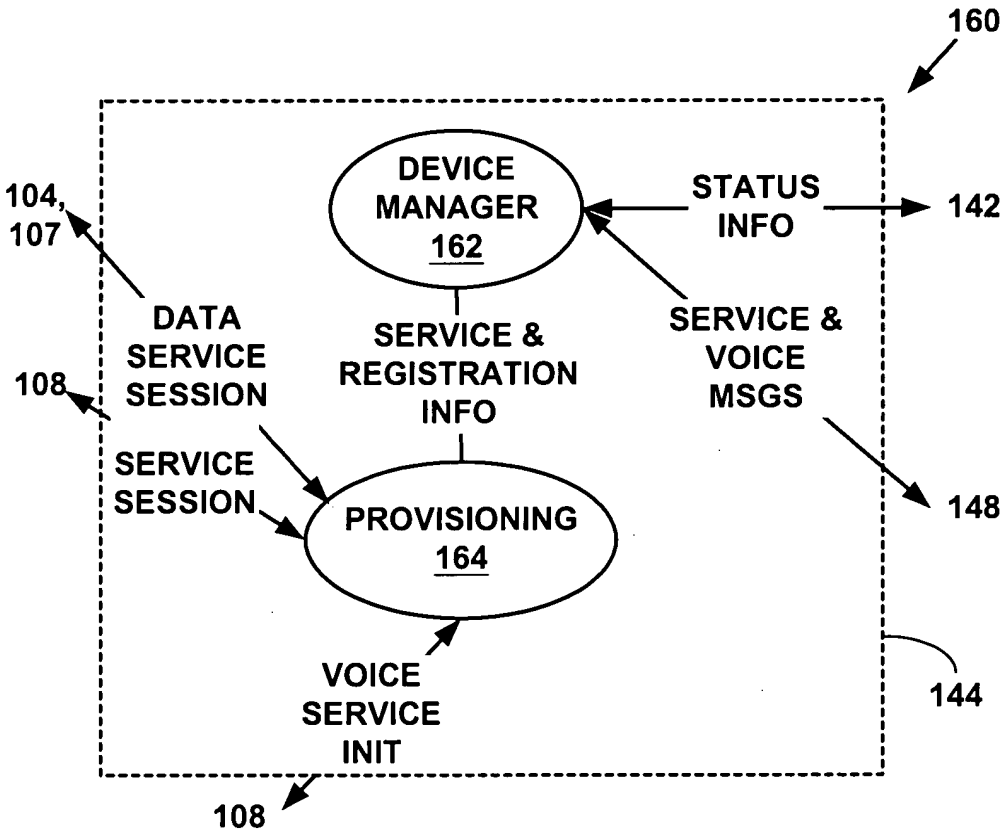
INTEGRATED PHONE-BASED HOME GATEWAY INTERFACE SOFTWARE ARCHITECTURE

FIG. 8



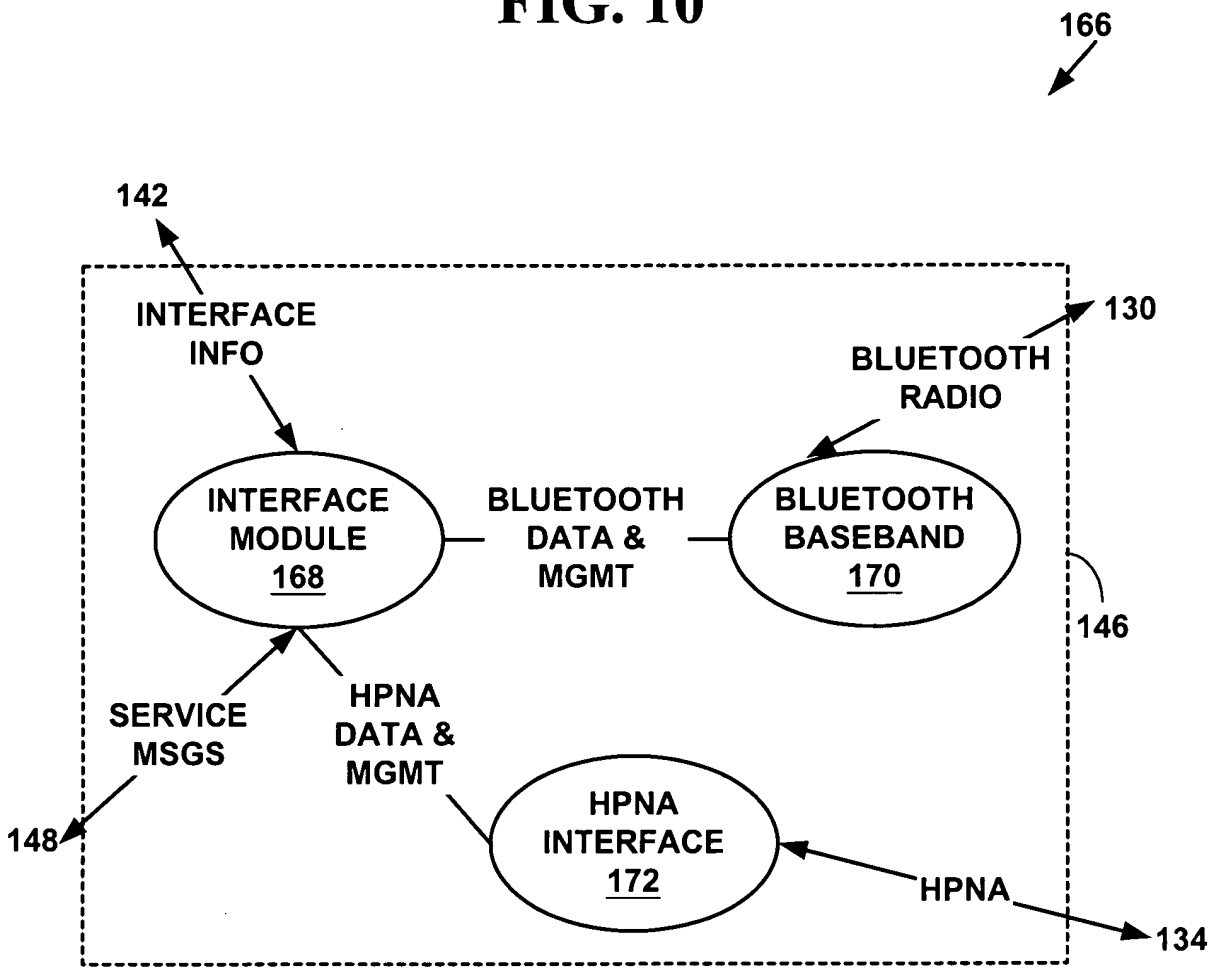
SESSION MANAGER SOFTWARE ARCHITECTURE

FIG. 9



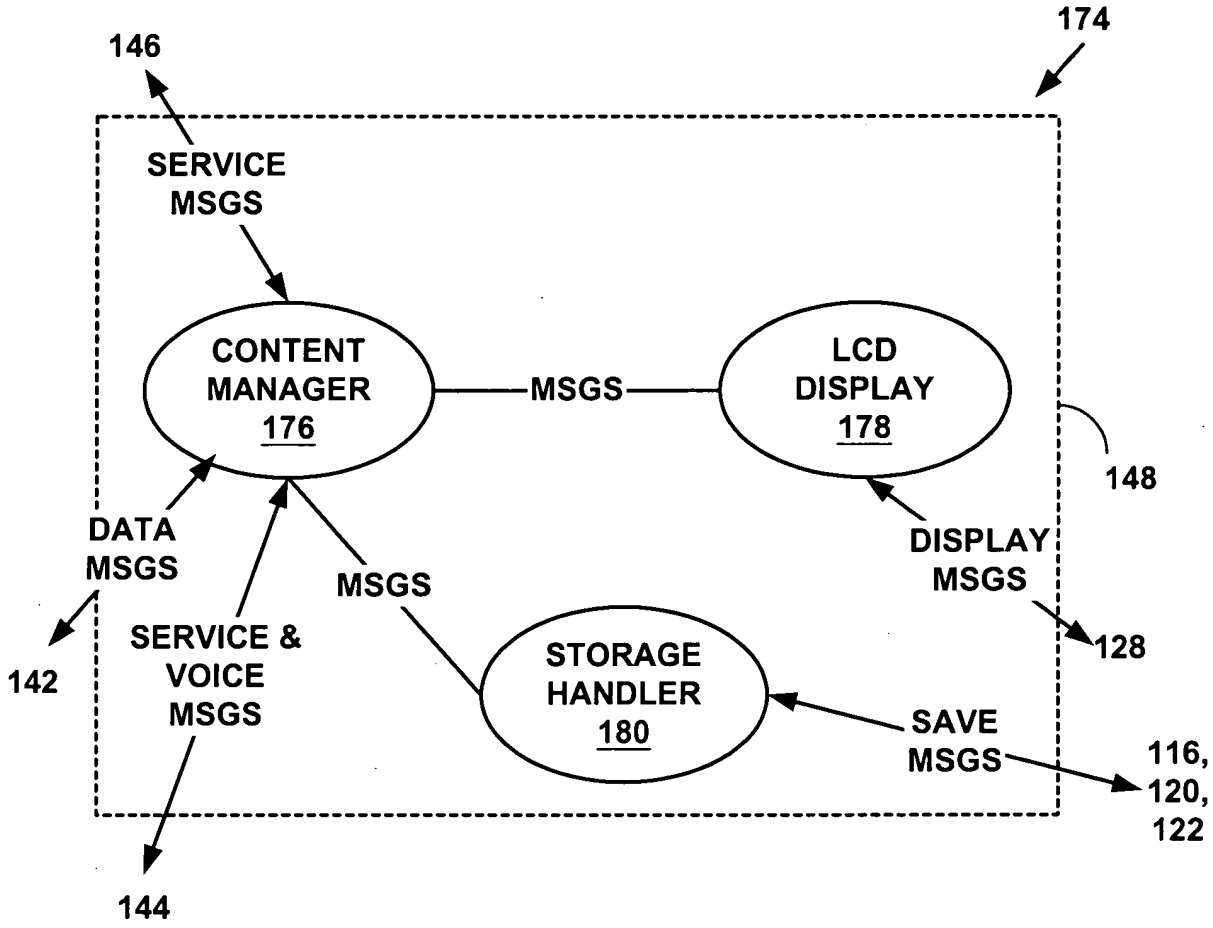
SERVICE MANAGER SOFTWARE ARCHITECTURE

FIG. 10



INTERFACE MANAGER SOFTWARE ARCHITECTURE

FIG. 11



DISPLAY MANAGER SOFTWARE ARCHITECTURE

FIG. 12

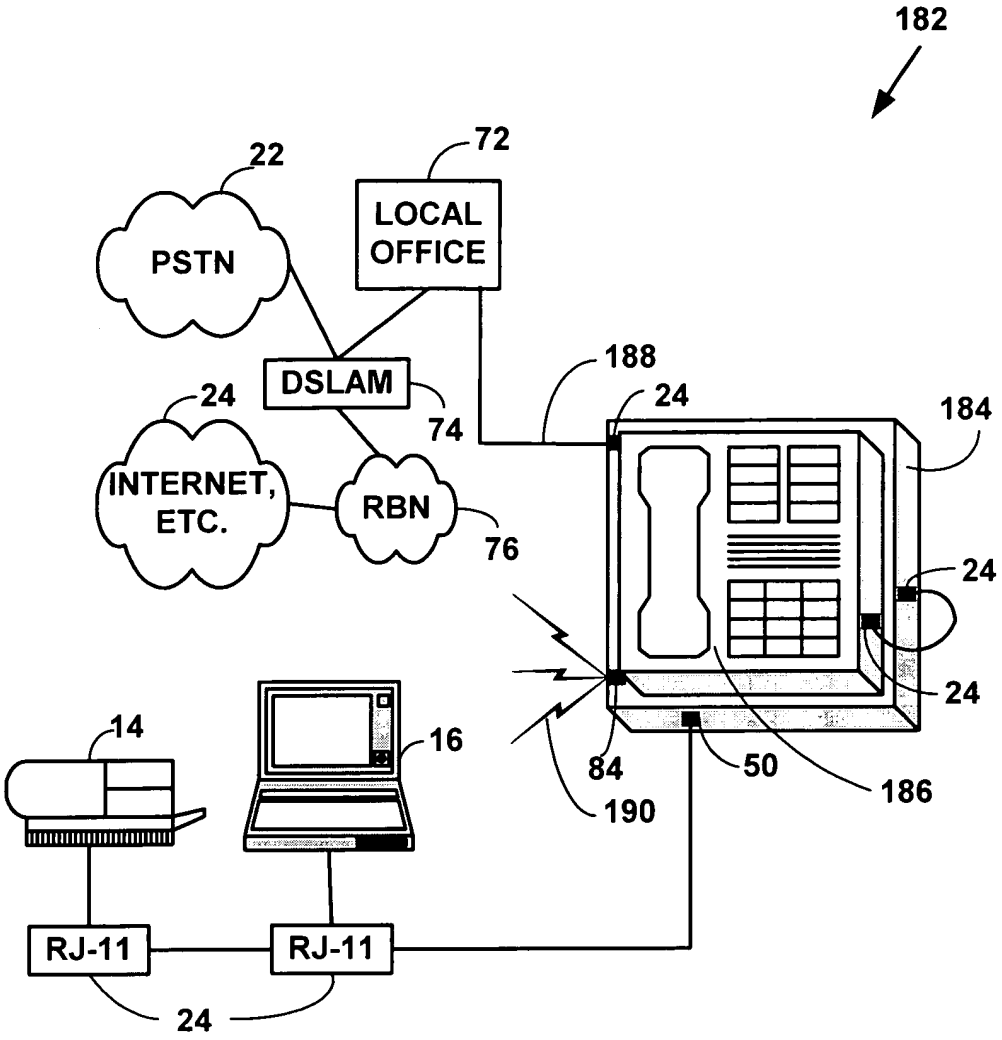
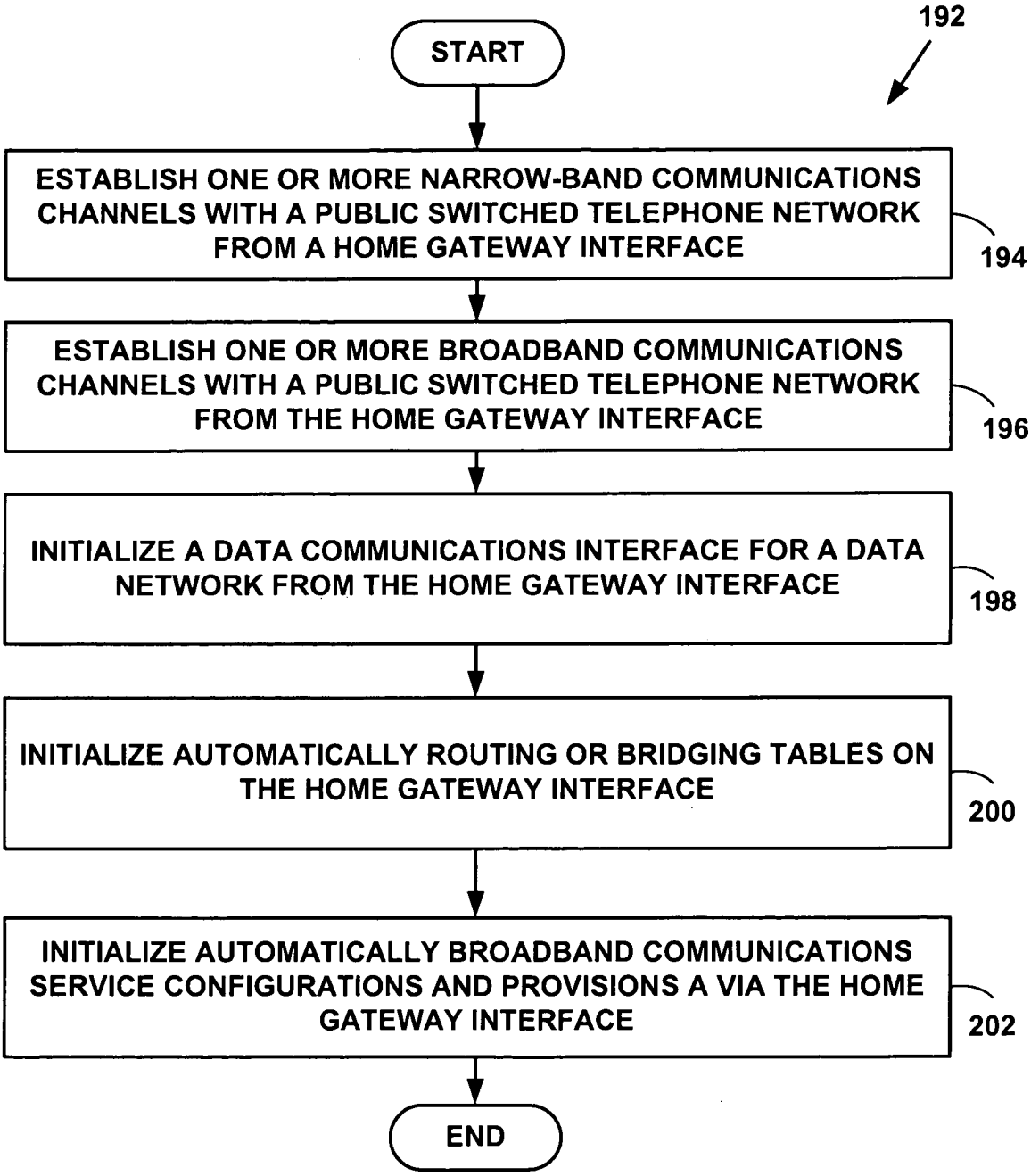

182
22
72
PSTN
LOCAL OFFICE
188
DSLAM
24
74
24
184
INTERNET, ETC.
RBN
76
24
24
14
16
84
50
186
190
RJ-11
RJ-11
24

FIG. 13


192
START
ESTABLISH ONE OR MORE NARROW-BAND COMMUNICATIONS CHANNELS WITH A PUBLIC SWITCHED TELEPHONE NETWORK FROM A HOME GATEWAY INTERFACE
194
ESTABLISH ONE OR MORE BROADBAND COMMUNICATIONS CHANNELS WITH A PUBLIC SWITCHED TELEPHONE NETWORK FROM THE HOME GATEWAY INTERFACE
196
INITIALIZE A DATA COMMUNICATIONS INTERFACE FOR A DATA NETWORK FROM THE HOME GATEWAY INTERFACE
198
INITIALIZE AUTOMATICALLY ROUTING OR BRIDGING TABLES ON THE HOME GATEWAY INTERFACE
200
INITIALIZE AUTOMATICALLY BROADBAND COMMUNICATIONS SERVICE CONFIGURATIONS AND PROVISIONS A VIA THE HOME GATEWAY INTERFACE
202
END